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FIREPROOF HOUSES

OF

NATCO

HOLLOW TILE

New York Edition

FIREPROOF HOUSES

Seventh Edition

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Introduction to SEVENTH EDITION

DURING the successive periods marked off by the previous six editions of "Fireproof Houses", Natco Hollow Tile developed from its introductory stage to a nationally broad recognition of its superior merits over all other building materials.

This seventh edition may be said to signalize a further fundamental development—a growing conviction that Natco construction is not only greatly preferable to any other, but that lesser standards are no longer adequate at all. Let us take a glance backward at the relatively brief, but revolutionary career of Natco Hollow Tile.

There are two factors of progress—evolution and its more rapid working counterpart invention. Where evolution fails to keep pace with the world's requirements, invention steps in and fills the breach.

The older building materials—the results of centuries of slow evolution—were no longer meeting the demands of civilization for fire-safe, maintenance-free, absolutely permanent buildings.

Then came the invention of Natco Hollow Tile and with it the revolutionizing of building standards—simplifying the erection, affording absolute protection from fire and insuring a permanence independent of all conditions.

The use of Natco started where the need of such a material was most apparent and where the requirements were most severe—in the great skyscrapers of the cities. Immediately winning recognition as the most effective fireproofing material in this field, Natco played a most important part in the growth of skyscrapers to their present great proportions and popularity.

The next logical development in the use of Natco was in the direction of the smaller buildings such as residences. These presented a problem of their own in that the bearing walls must be built of Natco Hollow Tile entirely, without steel reinforcement, and Natco must be made in the form and of the strength to satisfy these conditions.

The number of such buildings is the best evidence of the success of Natco as adapted to residence construction. Architects showed their approval at once, a great number of them being among the first to specify Natco Hollow Tile for their

own homes. There now are so many Natco houses and moderate sized buildings in all parts of the country that in this seventh edition of "Fireproof Houses" different sub-editions for the various sections have been necessary—space not permitting a fair representation of all in one volume.

NATCO HOLLOW TILE FOR RESIDENCES

Natco Hollow Tile is the highest attainable grade of the same terra cotta material that gives to skyscrapers really fire safe construction. The tile are necessarily of different form and size to meet the requirements of strictly bearing walls. This difference is clearly shown by a description of the latest development of Natco—the tile known as

NATCO XXX

Natco XXX, unlike any other Hollow Tile, has a double cross web. Because of this improvement, every web and shell of every Natco XXX tile as set in exterior and bearing walls, comes in direct alignment and under complete compression. The Natco XXX wall represents the utmost in structural solidity and strength.

The advantages of Natco construction for all types of buildings, large and small, are very generally understood today. Natco Hollow Tile is a material that cannot burn. Neither can dampness, climate, temperatures, or age cause the slightest deterioration.

It is when contrasted with other materials that Natco Hollow Tile looms up to best advantage.

The Natco house or building needs no painting and repairing. It is warmer in winter, cooler in summer, because the Natco Hollow Tile blankets the structure with an insulation of dead air and the material itself does not take in the heat, the cold, or the moisture, as does wood, brick and stone. It affords no entrance to vermin. Lastly and most important of all, it is fireproof in the complete sense of the term.

Any building of moderate dimensions may be and should be built of Natco Hollow Tile. It lends itself to any architectural treatment. The different forms of Natco tile allow for its economical use in any type of structure and in the partitions, floors, and roofs as well as walls.

The residences illustrated here have been selected simply as typical, without any attempt to portray the complete scope of Natco construction.

Be sure to secure the genuine Natco Hollow Tile. It may always be distinguished from its inferior imitations by the trade mark, "Natco", pressed into every tile of genuine Natco Hollow Tile.

RESIDENCE AT WHITE PLAINS, NEW YORK
:: *Albro & Lindeberg, New York City, Architects.* ::

The design of the above residence is an adaption of Italian motiffs. The outside walls are constructed of eight inch NATCO Hollow Tile. The foundations are stone and the floors of wood construction. Warm, cream colored stucco was used with a waterproofing. The house measures approximately 100 x 50 and contains seventeen rooms and six bathrooms. The roof is of tile.

RESIDENCE AT HACKENSACK, NEW JERSEY

:: *Frank Eurich, Jr., Hackensack, Architect and Owner.* ::

The residence above illustrated was designed by the Architect for his own occupancy, which fact we consider a tribute to the high stage of development which NATCO has reached. The outside walls are constructed of ten and eight inch NATCO Hollow Tile. The foundations are twelve inch NATCO Hollow Tile and the floors of wood construction. White stucco was used without waterproofing. The house measures 28 x 48 and contains twelve rooms and three bathrooms. The Roof is of shingles. The porch can be enclosed in winter and is equipped with a fireplace.

RESIDENCE AT BROOKLYN, NEW YORK

.: *Dodge & Morrison, New York City, Architects.* ::

The outside walls of this house are constructed of twelve and eight inch NATCO Hollow Tile. The foundations are concrete and the floors of wood construction. The stucco is cream color with green tile inserts and no waterproofing was used. The house measures 36 x 33 and contains nine rooms and three bathrooms. The roof is of shingles. In connection with this operation, it might be of interest to state that the kitchen contains no woodwork except veneer doors without panels and the floor is of composition tile and plaster.

RESIDENCE AT SUMMIT, NEW JERSEY

:: *Benjamin V. White, New York City, Architect.* ::

The above is a splendid example of "NATCO Throughout" as applied to residence construction. The outside walls are constructed of eight inch NATCO Hollow Tile; floors of combination NATCO Hollow Tile and concrete and partitions also of NATCO Hollow Tile. Foundations are twelve inch NATCO Hollow Tile. Gray stucco was used with a waterproofing. The house measures 30 x 70 and contains ten rooms and four bathrooms. Roof is of tile. The garage is also fireproof throughout in that NATCO Hollow Tile was used for walls, floors and partitions. The garden wall in the rear is seven feet high and is built of NATCO Hollow Tile with reinforced pilasters, stuccoed surface and concrete top. It does not, however, appear in the above view.

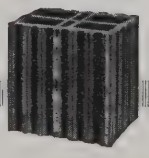
RESIDENCE AT NEW HAVEN, CONNECTICUT

:: *Grosvenor Atterbury, New York City, Architect.* ::

The outside walls of this house are of brick veneer backed up with ten and eight inch NATCO Hollow Tile. The foundations are concrete; floors of combination NATCO Hollow Tile and concrete and partitions of NATCO Hollow Tile. The veneer is of the common brick type which have been somewhat overburned and swelled owing to proximity to fire holes in kilns. The house measures 55 x 33 with servants wing 27 x 24 and contains seventeen rooms and four bathrooms. Roof is of flat tile shingles, ranging in color from light to dark red. There is also attached to this dwelling, a garage measuring 21½ x 46 and built of NATCO Hollow Tile.

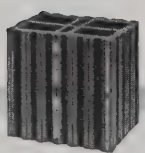
RESIDENCE AT NEW ROCHELLE, NEW YORK
:: *Laurence L. Barnard, New Rochelle, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are stone and the floors of wood construction. Cream colored stucco was used without water-proofing. The house measures 30 x 75 and has ten rooms and three bathrooms. The roof is of red Spanish Tile.



RESIDENCE AT DOUGLASTON, LONG ISLAND, N. Y.
:: *Norman McGlashan, New York, Architect and Owner* ::

The Architect of the above residence is also the owner and the fact that NATCO Hollow Tile was used we consider a tribute to the many evident advantages of this form of construction. The outside walls are constructed of eight inch NATCO Hollow Tile and foundations of concrete and brick. The first floor of this residence is all fireproof construction in that eight inch NATCO Hollow Tile and concrete were used. The finish of this building is extremely interesting. The effect of the warmish cast was secured by two parts of white marble and one part Sienna through three eights inch sieve; the materials washed clean and thrown on to a soft coat of cement mortar. The tone and evenness of this texture is remarkable. The house measures 28½ x 38½ and contains eleven rooms and two bathrooms. Roof is of Spanish Tile, Dixie red in color. The 16″ buttresses of this residence are built of NATCO as is also the wall shown in the rear.



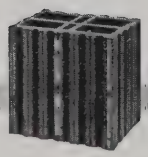
RESIDENCE AT SUMMIT, NEW JERSEY

:: *Balch & Beardsley, New York City, Architects.* ::

The above residence exemplifies "NATCO throughout" construction as applied to residences. The house is designed in Colonial style with sleeping porches in direct connection with second story bed rooms. Conservatory opens off dining room. From the spacious veranda at one end, brick steps lead down to a garden with pool and summer house. The grade slopes to rear, making possible a garage at basement level connecting direct with the house. The outside walls are constructed of eight inch NATCO Hollow Tile; foundations concrete; floors of combination NATCO Hollow Tile and concrete and partitions of NATCO Hollow Tile. Light gray stucco was used without waterproofing. The house measures 36 x 86 not including verandas and contains fifteen rooms and four bathrooms. The roof is of green shingle tile.

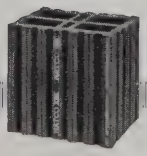
RESIDENCE AT SHREWSBURY, NEW JERSEY
:: *S. Gifford Slocum, New York City, Architect.* ::

The first story walls of this house are constructed of ten and eight inch NATCO Hollow Tile and the second story walls of eight and six inch NATCO Hollow Tile. Foundations are ten and twelve inch NATCO Hollow Tile; floors of reinforced concrete and partitions of six inch NATCO Hollow Tile. The color of the stucco is yellow secured with yellow sand and a slight addition of yellow Ochre with a waterproofing compound. The house measures 56 x 79 and contains fifteen rooms and five bathrooms. The roof is of red Spanish Tile.
The farm cottage in connection with this residence was also built of Natco Hollow Tile.



RESIDENCE AT FLUSHING, LONG ISLAND, N. Y.
:: *Donn Barber, New York City, Architect.* ::

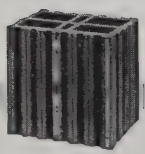
The residence above illustrated is of the English style of architecture. The construction of roof and chimneys is very interesting and the building as a whole, is picturesque. The outside walls are constructed of twelve, ten and eight inch NATCO Hollow Tile. The foundations are concrete and the floors of wood construction. Light gray stucco was used with a waterproofing compound. The dimensions of the house are 54 feet front, 63½ feet west side and 44 feet east side, and it contains fourteen rooms and four bathrooms. The roof is of shingles.



RESIDENCE AT MONTCLAIR, NEW JERSEY

:: *William J. Lodge, Bayonne, New Jersey, Architect.* ::

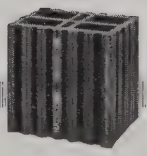
The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are of twelve inch NATCO Hollow Tile and the floors of wood construction. White stucco was used without waterproofing. The house proper measures 42 x 32 with a kitchen extension 15 x 20 and has ten rooms and three bathrooms, also large reception hall and two pantries. The roof is of shingles.



RESIDENCES AT WOODCLIFF, NEW JERSEY

:: *James Thomson, Woodcliff, Architect and Owner.* ::

The above residences were designed and erected by the owner for speculative purposes and the illustration represents but a section of the extensive developments that have been carried on by Mr. Thomson and in which NATCO Hollow Tile has been the structural material. In **1911**, he erected three frame houses which did not find a ready market. The next year, he built nine NATCO Hollow Tile houses which sold at once. In **1913**, Mr. Thomson built sixty-three NATCO houses, all but two of which are sold. This year, another new street of seventy-five houses will be erected and a number of them have been sold from the plans. The walls of the above houses are constructed of eight and six inch NATCO Hollow Tile. In some, the foundations are stone, some of conduits and others of NATCO Hollow Tile. The stucco ranges from cream to gray and white in the various houses. The dimensions of the houses range from **21 x 29** to **24 x 38** and the number of rooms vary; six, seven, eight, ten and twelve to a house and one or two bathrooms. The roofs are of asbestos shingles. The dwellings are reasonable in price and aside from this fact, they make their appeal to the prospective home owner by their completeness in every detail containing as they do, bookcases, window seats, china closets, winding stairs with Colonnades, sun parlors, etc.; every nook and corner is put to some useful purpose.

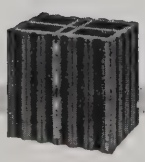


RESIDENCE AT INTERLAKEN, NEW JERSEY

:: *W. C. & A. F. Cottrell, Asbury Park, New Jersey, Architects* ::

The outside walls of this house are constructed of twelve and eight inch NATCO Hollow Tile. The foundations are twelve inch NATCO Hollow Tile and the floors of the house are of wood construction while the porch and terrace floors are of NATCO Hollow Tile and concrete. White stucco was used with a waterproofing. The house measures 32 x 48 and has eleven rooms and two bathrooms. The roof is of red tile.

This residence was built at the same cost as frame construction.



RESIDENCE AT GRYMES HILL, STATEN ISD., N. Y.
:: *Henry A. Smith & William P. Miller, New York City,* ::
:: *Architects.* ::

The outside walls of this house are constructed of twelve and eight inch NATCO Hollow Tile. Foundations are stone and the floors of wood construction. House is finished with asbestos stucco of a cream color. Dimensions of house are 99 x 45 including porches (house alone 64 x 33), and it contains seventeen rooms and four bathrooms. The roof is of stained shingles. The porches of this residence are so arranged that they can be enclosed in the winter and the living room porch is used as a conservatory which is in view of all the main rooms on the first floor. Dining room porch has an open fireplace.

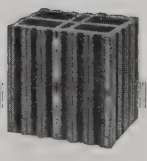
RESIDENCE AT NYACK, NEW YORK

:: *Hutton & Buys, New York City, Architects.* ::

The first story walls of this house are constructed of local field stone backed with NATCO furring tile and the second and third stories of eight inch NATCO Hollow Tile. The foundations are concrete and stone and the floors of wood construction, with steel girders. All partitions are of NATCO Hollow Tile. Brown stucco was used with a waterproofing paint The house measures 90 x 40 and contains twenty rooms and four bath rooms. The roof is of flat green tile.

RESIDENCE NEAR RED BANK, NEW JERSEY
:: *Leon Cubberley, New York City, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are brick and the floors of wood construction. Cream colored stucco was used with a waterproofing. The house proper measures 38 x 96 with a wing 26 x 65 and contains twenty three rooms and five bathrooms. The roof is of red Spanish Tile.



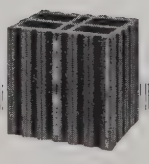
RESIDENCE AT INTERLAKEN, NEW JERSEY

:: *Paul L. Dodge, Asbury Park, New Jersey, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are concrete and the floors of wood construction. White stucco was used without waterproofing. The house measures 46 x 34 first story and 32 x 34 second story and it has eleven rooms and two bathrooms. The roof is of red asbestos shingles. This residence was built at the same cost as frame construction.

RESIDENCE AT ELIZABETH, NEW JERSEY
:: *F. B. & A. Ware, New York City, Architects.* ::

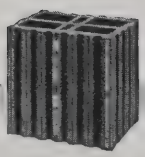
The outside walls of this house are constructed of ten and eight inch **NATCO** Hollow Tile. The foundations are concrete and the floors of wood construction. The partitions are also of wood except two which are of tile. Buff colored stucco was used without waterproofing. The house measures approximately 40 x 50 and contains fourteen rooms and three bathrooms. The roof is of shingles.



RESIDENCE AT HARTSDALE, NEW YORK

:: *Mann & MacNeille, New York City, Architects.* ::

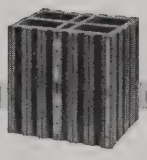
The above is one of a group of five houses arranged around a court, designed for rental purposes. The group is designed in the English style with the present popular casement windows and the requirements were, durability with a low maintenance cost. The outside walls are constructed of eight inch NATCO Hollow Tile. The foundations are twelve inch NATCO Hollow Tile and the floors of wood construction. Rich, warm buff colored stucco was used without waterproofing. The house measures 55 x 25 and contains nine rooms and three bathrooms. The roof is slate of variegated colors.



RESIDENCE AT ASBURY PARK, NEW JERSEY

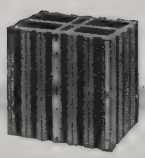
:: *David M. Ach, New York City, Architect.* ::

The outside walls of this house are constructed of twelve and eight inch NATCO Hollow Tile. The foundations are brick and the floors of iron girders with wooden floor beams. Buff colored stucco was used with a waterproofing compound. The house measures 60 x 75 and has fourteen rooms and three bath rooms. The roof is of green glazed tile. The garage is of same construction as residence and contains three rooms and a bath room on second floor.



RESIDENCE AT NEW ROCHELLE, NEW YORK
:: *Beverly S. King, New York City, Architect.* ::

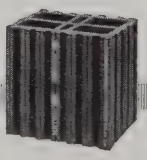
The above is an example "NATCO throughout" and represents NATCO construction in its highest development. The walls are constructed of ten and eight inch NATCO Hollow Tile; floors of combination NATCO Hollow Tile and concrete. Bearing partitions are also of eight inch NATCO Hollow Tile and foundations of stone. White stucco was used with a waterproofing. The dimensions of the house are 43 x 30 with a two story extension 16 x 17 and it contains ten rooms and three bathrooms. Roof is of shingle tile



RESIDENCE AT UPPER MONTCLAIR, NEW JERSEY

:: *D. F. Wendehack of Squires & Wendehack,* ::
:: *New York City, Architect and Owner.* ::

This residence represents another of the many instances where an architect expressed his confidence in NATCO construction by employing the material in his own home. The outside walls are constructed of eight inch NATCO Hollow Tile. Foundations are concrete and the floors of wood construction. Stucco is a composition of asbestos and white cement and of a buff color. The house measures 30 x 50 and contains seven rooms and one bathroom. The roof is of shingles. There is a studio on second floor north with high beam ceiling; also a sleeping porch.



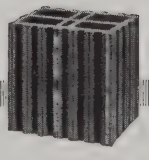
RESIDENCE AT HARTFORD, CONNECTICUT

:: *A. Raymond Ellis, Hartford, Architect.* ::

This residence is of the English half Timber Style. The outside walls are constructed of eight inch NATCO Hollow Tile. The foundations are concrete and the floors of wood construction. Light gray stucco was used without waterproofing. The house measures approximately 35 x 49 and contains eleven rooms and three bathrooms. The roof is of slate. In connection with this residence, there are a green house and garage also built of NATCO Hollow Tile.

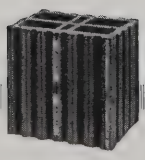
RESIDENCE AT RIVER EDGE, NEW JERSEY
:: *Forman & Light, New York City, Architects.* ::

The outside walls of this house are constructed of ten and eight inch NATCO Hollow Tile. The foundations are brick and the floors of wood construction. White stucco was used with a waterproofing compound. The house measures 30 x 72 and has fourteen rooms and three bathrooms. The roof is of Spanish Tile.



RESIDENCE AT WESTFIELD, NEW JERSEY
:: *Oakley & Son, Elizabeth, N. J., Architects.* ::

The outside walls of this house are constructed of eight inch **NATCO** Hollow Tile. The foundations are concrete and the floors of wood construction. Cream colored stucco was used with a waterproofing. The dimensions of the house are 56 x 30 and it contains nine rooms and two bathrooms. The roof is of shingles.



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